



Venus Technical Data sheet of Supplied Airline Respiratory System with Stand

The Venus Supplied Airline respiratory system consists of 5 main components.

1. Compressed air filter panel with Stand
2. Airline Hose
3. Airflow control valve
4. Breathing tube connector
5. Hood/Full face mask

1. Compressed Air Filter Panel with Stand



- a) The Compressed Air Filter Panel with Stand features a 3-stage air filter unit comprising OF Borosilicate fine particle filter, HEPA filter and activated carbon filters.
- b) These air filters effectively remove dust, rust, condensate moisture, oil impurities, exhaust fumes, and any odors present in the compressed air.
- c) The Borosilicate filter is used to eliminate dirt, dust, rust, and other metal particles up to 1 micron in size.
- d) The high-efficiency particle arrestor (HEPA) is used for the removal of oil, moisture contents and boasts a filtering efficiency of 99.99% at 0.01 micron.
- e) The carbon filter is included to remove oil, vapor, gases, and odors.
- f) The system filters incoming air from a compressor to provide respirator users with Grade-D air quality.
- g) The equipment is equipped with pressure gauges for air pressure detection.
- h) The filter is equipped with a manual drain option to remove dust and mist particles.
- i) The filter includes a flow regulator to control the air flow rate.
- j) The filter is designed to be used with a full body suit or hood providing high-pressure air to the user.
- k) These systems are designed for upright and closed usage to prevent internal contamination.
- l) An optional humidifier is available, designed to disperse water vapor and restore comfortable humidity levels in the breathable air.
- m) Regular cleaning and water replacement are crucial for humidifier components to prevent bacteria buildup and corrosive scale deposits. Clean humidifiers help avoid particulate emissions during use. Filtered water should be used with the humidifier.
- n) This unit primarily regulates pressure and filters air to provide a stable source for process control equipment like current to pneumatic transducers and control valve positioners.
- o) This equipment has a inbuilt stand for easy portability.



- p) The filter unit features one input and provides outputs for 3 users to work simultaneously.
- q) The system is approved under ISI 10245 (Part III) standards.

2. Air Hose Pipe



- r) The air hose pipe connects the Air filter panel to the air flow control valve unit to Chemical & Heat.
- s) The Hose pipe is of robust design and is resistant to Chemical & Heat.
- t) The Hose pipe is available in braided & Spiral type with lengths of 10 m to 30 m.
- u) The design of the hose pipe is such that it is elastic, flexible and kink resistant. It uses special material like polyurethane for anti-kink protection.
- v) The hose pipe is certified for allowable working pressures up to 10 bar/145 psi (at room temperature).

3. Airflow Control Valve



- a. The function of the Air flow control valve is for micro regulation of air & it has an inbuilt filter element for improving the quality of inhaled air. The device is made of a strong metal container with a high-capacity combined filter inside.
- b. The unit allows for air supply adjustment to the user by a swivel control knob.
- c. The filter element inside removes impurities like particles, adhesions like oil mist and unpleasant odors from the compressed air.
- d. The Minimum inlet pressure for the unit is 1.2MPa and the maximum is 2MPa.
- e. The Vortex helps regulate the flow and temperature of supplied air system.
- f. The vortex assembly can cool compressed air by as much as 50°F (10°C). It can operate at pressures ranging from 60 to 90 psi, depending on the hose length.

4. Breathing Tube with connectors



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- a. The Breathing tube and connectors connect the flow control valve to the hood.
- b. The construction the breathing tube is light weight with non-linking PVC connector hose with male RD-40 or Universal Thread.
- c. The tube and connectors are dust & chemical resistant.
- d. The tube also has a flexible helix that adjusts to the appropriate length for the individual wearer.

5. Hoods/V-668 Full face mask



- a. The primary role of the headgear is the protection of the face, head, neck, and shoulders of the user.
- b. Venus hoods and full-face masks are light in weight and are ideal for wearing for long durations.
- c. Venus hoods have an adjustable headband (the head circumference and height are adjustable in three levels) which ensures excellent wearer comfort. The size of the hood can be adjusted at two points – on the neck and scruff. The wide panoramic visor enables good orientation.
- d. Venus hoods are maintenance free Tyvek chemical resistant and are conveniently disposable which saves time cleaning.
- e. The hoods have a wide field of vision and allow user freedom to wear their own safety eyewear.
- f. Both the hoods and full-face mask connect quickly to the breathing tube as they use our innovative Quick Release Swivel (QRS) connects quickly and helps avoid kinks in the breathing tube.
- g. V-668 Full face mask has robust construction and a slim design which allows for great dexterity.
- h. Both the hoods and V-668 full face mask are supplied with chemical resistant, distortion free and clear transparent visor protection films.

6. Recommended Applications:

Metal Repair, Assembly & Mechanical, Painting, Cleaning, Composite Finishing, Final Finish, Welding, Paint Preparation, Blasting.

7. Recommended Industry Type:

General Manufacturing, Mining, Oil & Gas, Transportation, Marine, Pharmaceuticals, Chemical, etc.



Supplied Air Respirator Unit (SA)

Supplied air line systems with wide selection of headpiece for high protection

IS 10245 (Part 3)



CM/L-7800010911

As the name suggests, the Supplied Air Respirator Unit, supplies clean air to the wearer. The air is filtered after being supplied from a compressor. Hoods, helmets, full face pieces, half face pieces and loose-fitting face pieces can be worn to which this clean air can be supplied. The Supplied Air Respirator Unit increases comfort, productivity and protection while offering many advantages over other respiratory protective devices.

Air Purification Panel

Air Purification Panel is connected by the air hose to the rest of the apparatus.



SA-FRC 100
Filter Regulator Conditioner
 Regulator with pre-filter up to 5 micron Borosilicate fine filter up to 0.03 micron + Activated carbon odour filter with pressure gauge, manual drain and metal guard (For 3 users)
 Pressure : 10 bar

Item # 13431
 # 13446

CUSTOMER END

Oil free compressed air source
 + Safety pressure release valve



SA-PFR 100
Air pre-filter-regulator
 Metal bowl coalescing type for removal of liquid water
 Inlet / Outlet Ø 12 mm
 Item # 13046

Spares for SA-FRC 100



Borosilicate Fine Filter
 Item # 73429



Activated carbon odour filter
 Item # 73430

Air Hose

Air Hose connects the Air purification Panel to the Air control device. Careful selection of the hose material is required as it could be vulnerable to the surrounding atmospheric contaminants.



SA-SH 10
Spiral Hose
 10 Meter Length

Item # 13052



SA-BH 10
Airline PVC Braided Hose
 10 Meter Length

Item # 13111



SA-BH 20
Airline PVC Braided Hose
 20 Meter Length

Item # 13169



SA-BH 30
Airline PVC Braided Hose
 30 Meter Length

Item # 13166

Air Control Device

The Air Control Device ensures supply of constant amount of air into the hood. The unit allows air supply adjustment by a swivel control knob. The control knob can be locked into any position so that the set airflow will not vary.



SA-FCV 100
Flow Control Valve -
 Low pressure Connector CA40M

Item # 13156



SA-PCV 100
Pressure Control Valve -
 High Pressure Connector CA40M
 EN 14594:05 2A
 Item # 13045

Technical specification	CA Pressure Flow control
Air flow - adjustable	min. 160 l/min, max. > 400 l/min
Weight	250 g
Noisiness	max. 61 dB

SA-VAC 100
Vortex Air Cooler Kit
 Item # 13324



APPLICATION EXAMPLES

Engineering

Mining
 Petrochemicals
 Smelting & foundry
 Pesticides

Welding, Sand Blasting, Powder coating, Buffing, Painting, Cutting Drilling
 Unventilated areas
 Heat exposure & fine airborne particles
 Blending, Handling, Rod mill, Powder packing

Paints
 Pharmaceuticals
 Ships
 Waste treatment

Paint spray, Mixing
 Bulk drugs, Material handling
 Tank cleaning
 Sewage handling,
 Cleaning drains



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